



C16-CE-303

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BOARD DIPLOMA EXAMINATION, (C-16)

MARCH/APRIL—2018

DCE—THIRD SEMESTER EXAMINATION

CONSTRUCTION MATERIALS

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=30

Instructions : (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. Distinguish between stratified and foliated rocks. 1½+1½
2. Define refractory bricks and classify them. 1½+1½
3. State any three functions of sand. 3
4. Classify different types of tiles. 3
5. State any three standard tests conducted on cement. 3
6. Write any six uses of mortar. ½×6
7. List the ingredients of PCC and RCC. 1½+1½
8. State any three functions of paints. 3

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9. Define seasoning and state two objectives of seasoning of timber. 1+2
10. Write any three uses of asbestos. 3

PART—B

10×5=50

Instructions : (1) Answer *any five* questions.
 (2) Each question carries **ten** marks.
 (3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. Write any five properties of the following : 5+5
 (a) Marble
 (b) Granite stones
12. Write any ten characteristics of good bricks used in construction. 10
13. (a) Define bulking of sand. 1
 (b) List and explain different types of sand of sand. 3+3+3
14. Explain the method of determining (a) initial setting time of cement and (b) final setting time of cement. 5+5
15. (a) Define curing.
 (b) List and explain different methods of curing. 1+3+3+3
16. (a) What is admixture? 2
 (b) List and explain any four types of admixture. 8
17. List and explain the constituents of paints. 10
18. (a) What is fibre reinforced plastic? 2
 (b) Explain its applications in building industry. 8
